# MMMR

### MORBIDITY AND MORTALITY WEEKLY REPORT

**Epidemiologic Notes and Reports** 

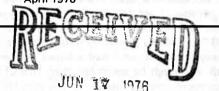
Occupational Lead Posioning — Utah International Notes

187 Salmonella Infections - United Kingdom, 1975

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#### Epidemiologic Notes and Reports

Occupational Lead Poisoning - Utah

Nineteen of 42 persons employed at a Salt Lake City secondary lead smelter during part or all of the period October 1975-January 1976 developed lead poisoning.\* An additional 3 employees had probable lead poisoning.† The outbreak was related to inadequate ventilation of 2 rotary furnaces first used for lead processing in early December 1975.

The investigation, conducted by the Salt Lake City-County Health Department and the Utah State Division of Health, began following the hospitalization of 7 smelter employees for lead poisoning during a 4-week period in December 1975 and January 1976. These patients' illnesses were of relatively acute onset: gastrointestinal symptoms predominated, and 2 had possible encephalopathy.

When questionnaires were completed and blood and/or urine levels were performed on 36 employees who had worked at the smelter during part or all of the 4-month period from October through January,‡ the additional 15 cases were found. All but 2 of the total of 22 cases had onset of illness in the period from November 30, 1975-January 4, 1976 (Figure 1). The most frequent symptoms were headache, dizziness, anorexia, nausea, abdominal cramps, and diarrhea (Table 1). The mean duration of symptoms was 20.5 days.

These 22 cases had a mean whole blood lead concentration of 120.3  $\mu g/100$  ml (standard error  $\pm$  13.4  $\mu g/100$  ml) (1). By contrast, 7 asymptomatic employees had a mean blood lead level of 63.9 $\pm$ 7.2  $\mu g/100$  ml (< .05, student's t test). Two cases had levels of 260  $\mu g/100$  ml and 280  $\mu g/100$  ml, respectively; 7 more had levels greater than 120  $\mu g/100$  ml. Thirteen cases were anemic, with a mean hemoglobin of 12.7 ( $\pm$  1.1 gms). Urine and blood arsenic and antimony concentrations were not elevated in any of the 36 interviewed employees. Twenty of the cases received chelation therapy.

The smelter processes only built August 1975, when it began lead and the Cay many reduction of lead oxide in a reverberatory furnace (Figure 2). The fumes and

FIGURE 1. Lead poisoning cases in smelter workers by week of onset. Utah. 1975-76

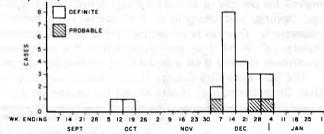


FIGURE 2. Amount of lead processed by month, Utah, 1975-76

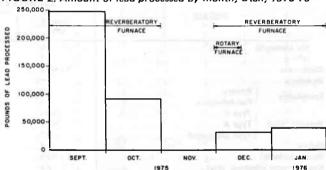


TABLE 1. Frequency of symptoms among 22 cases of lead poisoning\*

Symptom	Number Reporting	Percent
Abdominal cramps	19	86
Nausea	18	82
Diarrhea	12	55
Headache	12	55
Dizziness	12	55
Anorexia	12	55
Vomiting	9	41
Paresthesias	9	41
Constipation	8	36
Fatigueability	8	36
Myalgias	7	32
Weight loss (> 2 Kg)	6	27
Irritability	5	23
Chest pain	5	23
Specific muscle weakness	4	18
Tremor	4	18
Joint pains	4	18

<sup>\*19</sup> definite and 3 probable cases.

<sup>\*</sup>Lead Poisoning: a blood lead level  $\geq$  80  $\mu$ g/100 ml and/or urine lead level of  $\geq$  250  $\mu$ g/l, plus symptoms compatible with lead toxicity which could not be otherwise explained.

<sup>†</sup>Probable lead poisoning: a blood lead level of 50-79  $\mu$ g/100 ml plus compatible symptoms.

<sup>‡</sup> Twenty-two people are usually employed at the smelter, 11 as furnace workers. Employee turnover is considerable among the latter group. As a result, a total of 42 persons—including 6 temporary workers—filled smelter positions in the 4-month period described. Thirty-six of these employees were available for interview.

#### Lead Poisoning -- Continued

particles exited through a bag house and to a stack. In the first 2 weeks of December, the plant, in an attempt to increase lead production, added 2 small rotary furnaces previously used only for antimony.

When the confirmed lead poisoning cases were compared with asymptomatic employees, exposure to the smelter's furnace room was significantly associated with illness. All 13 workers who spent  $\geq$  50% of their day in the furnace room became ill, while only 6 of 11 employees who spent less than 50% of their time there developed lead poisoning (p = 0.01, Fisher's exact). One of the latter cases was the company president, who had a blood lead level of 160  $\mu$ g/100 ml. Although he spent less than 10% of his time in the furnace room, the air intake for the ventilation system for his office was adjacent to the furnace room. Two other cases were temporarily employed repairmen who worked in the furnace room in December. One, whose lead level was 81  $\mu$ g/100 ml, spent a total of 9 hours in the smelter.

Environmental sampling in January revealed air concentrations in the furnace room of 0.079, 1.24, and 2.65 mg/m<sup>3</sup> for periods of at least 3 hours during general cleanup, tapping, and charging of the reverberatory furnace, respectively. Dust in wipe samples (of a surface approximately 18" X 18") in the office and in the employees' lunchroom showed 0.46 and 0.41 mg of lead per sample.

The Salt Lake City-County Health Department and the Utah State Division of Health closed the smelter on Janu-

ary 16, 1976, when air sampling showed excessive lead during normal operation, (that is, using the reverberatory furnace, only) and when deficiencies were not corrected. When engineering controls were instituted and personal industrial hygiene stressed, the smelter was reopened. Surveillance by air sampling and blood lead testing is continuing.

Reported by R Maddock, MD, S Sharp, MD, Salt Lake City; H Gibbons, MD, D Petersen, R Ranck, Salt Lake City-County Health Dept; D Dalley, T Fukushima, MD, State Epidemiologist, M Gortatowski, PhD, R Isaacs, J Oman, L Thatcher, J Throckmorton, Utah State Division of Health.

Editorial Note: Although the outbreak was caused primarily by the temporary use of inadequately ventilated furnaces (Figures 1 and 2), both the 2 cases with onsets in October as well as the environmental contamination found in the smelter during normal operation indicate an endemic problem. Antimony is less toxic than lead in a smelter setting (2). Therefore, when the process changed to lead from antimony, proper engineering controls for lead were not present. The excessive lead absorption by the repairmen who worked briefly in early December suggests that air lead concentrations were very high.

#### References

- 1. Keenan RG, Byers DH, Saltzman BE, Hyslop FL: The "USPHS" method for determining lead in air and in biological materials. *Am Ind Hyg Assoc J* 24:481-491, 1963
- 2. Elkins HB: The Chemistry of Industrial Toxicology. New York, John Wiley, 1959, p 256

Table I. Summary—Cases of Specified Notifiable Diseases: United States

[Cumulative totals include revised and delayed reports through previous weeks]

CALCULATION NOTICE AND ADDRESS OF THE ASSESSMENT	23rd W	EEK ENDING	in neo- the	CUMI	JLATIVE, FIRST 2	3 WEEKS
DISEASE	June 12, 1976	June 7, 1975	MEDIAN 1971-1975	June 12, 1976	June 7, 1975	MEDIAN 1971-1975
Aseptic meningitis	34	50	52	800	873	870
rucellosis	3	3	4	104	81	62
hickenpox	5,492	4,383	will discontinue	131,276	101,299	On the factor
liphtheria	i	2	3	100	186	93
( Primary	13	20	19	325	294	370
ncephalitis   Post-Infectious	3	8	10	128	133	132
(Type B	304	203	190	6,416	4.865	4,039
epatitis, Viral Type A	639 203	611 142	1,038	15,696	15,867	22,866
lalaria	13	12		153	124	124
easles (rubeola)	1,504	1.191	1,191	28.225	16,840	20,552
eningococcal infections, total	24	22	20	860	753	753
Civilian	24	22	24	854	736	736
Military	*00000000	CHOCAL PA	11/2 11 <sup>2</sup> = 11	6	17	21
umps	1.033	1.769	1.794	28,296	38,351	46,197
rtussis	10	18		413	532	
ubella (German measles)	364	873	743	9,062	13,003	17,849
etanus	1	1	war of the later	18	28	35
uberculosis	656	708		14,536	14,161	
ularemia	5	4	a un annables	52	46	45
vphoid fever	á	6	1 10 10 17 191	134	110	128
yphus, tick-borne (Rky. Mt. spotted fever)	32	45	45	179	180	144
enereal Diseases:		-ypinA.		100 VIII - 104	100	
Gonorrhea Civilian	19,470	18,555		424,045	413,554	
Military	417	707		13,005	13,256	
Syphilis, primary and secondary (Civilian	473	448		10,946	11,315	
(Military	4	13		148	162	
abies in animals	71	58	78	1,144	1,059	1,677

Table II. Notifiable Diseases of Low Frequency: United States

	CUM.	2011/04/01/01/01/01/01/01/01/01/01/01/01/01/01/	CUM.
Anthrax:	2	Poliomyelitis, total:	5
Botulism: Calif. 1	8	Paralytic:	5
Congenital rubella syndrome:	11	Psittacosis:	21
Leprosy:	62	Rabies in man:	-
Leptospirosis:	17	Trichinosis:* N.Y.C. 1	54
Plague: Colo. 1, Ariz. 1	4	Typhus, murine:	9
ADDRESS OF THE PARTY OF THE PAR	ny cisa .	RESTAURANT TO A TOTAL STATE OF THE SACRED STAT	

<sup>\*</sup>Delayed Report: Trichinosis: Ariz. add 1

Table III Cases of Specified Notifiable Diseases: United States Weeks Ending June 12, 1976 and June 7, 1975 — 23rd Week

	ASEPTIC	BRUCEL-	CHICKEN-	DIO:-	urni -		NCEPHALIT		MEI	ATITIS, V		1441 4014		
AREA REPORTING	MENIN- GITIS	LOSIS	POX	DIPHT	HERIA		Arthropod- Unspecified	Post In- fectious	Туре В	Type A	Type Unspecified	MAI	AIIA.	
	1976	1976	1976	1976	CUM. 1976	1976	1975	1976	1976	1976	1976	1976	CUM 1976	
UNITED STATES	34	3	5,492	-	100	13	20	3	304	639	203	13	153	
EW ENGLAND	-	<u>-</u>	491 13	-	F :	<b>-</b>	2	1	5	39	6	-4	8	
Maine	_	_	5	_	_	-	_	-	_	1 1	_	-	_	
Vermont	_	-	í	_	-	_	1	_	_	6	_	_	_	
Massachusetts	_	-	294	_	-	_	ī	_	3	6	6	-	4	
Rhode Island	-	-	84	-	_	-	_	-	_	2	1	_	1	
Connecticut	_	-	84	_	-	-	_	-	2	23	-	-	3	
IDDLE ATLANTIC	4	-	613	-	-	1	2	-	64	67	54	2	27	
Upstate New York	3	-	268		-	1 -	-	-	22	27	8	- 91	5	
New York City	_		247 NN	_	_	_	1 1		13 29	12 28	-	2	15	
New Jersey Pennsylvania	1	-	98	Ξ.		-	_	-	NA	NA NA	46 NA	=	7	
AST NORTH CENTRAL	3	_	2,476	_	_	1	5	_	36	88	15	2	12	
Ohio	ī	-	354	-	-	_	ıí	_	10	26		_	5	
Indiana*	_	-	138	_	_	-	=	_	-	4	3	-		
Illinois	-	-	587	-	-	1	2	-	6	26	6	1	2	
Michigan	2	-	859	-	-	-	1	-	15	25	5	1	5	
Wisconsin	-	-	498	4.5	6.5	-	1	-	5	7	1	-	-	
EST NORTH CENTRAL	3	-	606		4	1 -	1	-	21	59	11	-1	5	
Minnesota	2	_	96		_		-	_	12	11		_	3	
Iowa* Missouri*	_	_	56		1	1	Ξ	_	3 1	6 19	7		_	
North Dakota	_	_	-	_	_		-	_	_	2	<u>:</u>	_	_	
South Dakota	_	_	_	-	3	-	_	_	_	4	_	_	1	
Nebraska	-	-	20	-	-	-	_	_	2	1	1	1	1	
Kansas *	1	-	434	-	-	-	1	-	3	16	3	-	-	
OUTH ATLANTIC	2	2	401	-	-	1	2	2	41	101	21	-	22	
Delaware	-	-	12	-	-	-	-	-	-	-	-	-	-	
Maryland	-	_	22 15	_	-	_	_	-	11	14	3	-	3	
District of Calumbia	-	1	33	-	-	-		-	2 5	1 8	4	-	2	
Virginia	_		153	_		-			2	9	-		6	
North Carolina	1	_	NN	_	_	505	1	-	- 4	5	2	-	3	
South Carolina	_	_	_	-	-	_	Ξ	2	4	. i	3		ī	
Georgia	1	1	166	_		- ī	- 1	_	13	33 30	9	-	1 6	
Florida							32					_		
AST SOUTH CENTRAL	4	-	170	-	-	2	1	1	17	55	2	-	1	
Kentucky	2	_	132	<b>-</b> -		-	-	1	4	16	1	-	-	
Теппессее	2		NN 33	_ =		-	1 _	_	6 7	25 10	1	-		
Alabama	_	-	5	_	-	2 *	-	-	8	4	Ξ	=	1	
EST SOUTH CENTRAL	7	1	404	_	1	1	4	_	23	51	31	_	6	
Arkansas	-	-	2	-	-	-	-	-	1	10	8	_	_	
Louisiana	1		NN	-	-	-	2	-	2	1	2	-		
Oklahoma	-	1	28	-		-	-	-	4	9	2	-	-	
Texas	6	-	374	-	1	1	2	-	16	31	19	-	6	
OUNTAIN	-	-	92	-	3	-	-	-	11	20	16	-	7	
Montana	-	-	16	-	-	-	-	-	-	-	-	-	_	
Idaho •	-	-	1	-	-	-	-	-	-	-	2	-	-	
Wyoming	-	-	- 52	550	- 2	-	-	-	-	1	-	-		
Colorado	_	<u>-</u>	52 2	-	3	87		-	4	7	5	_	4	
New Mexico	_		_	_	_	-	100		4	2	1 -	_	1	
Arizona	- 1	_	21	_	_	_	_	_	_	5	8	_		
Nevada	-	-	-	-	-	-	-	-	2	2	= =	-	1	
ACIFIC	11	-	239	-	92	6	3	-	86	159	47	8	65	
Washington	-	-	174	-	90	-		-	3	21	6	-	2	
Oregon	2	-	1	-		-	1	-	3	4	6	-	5	
California •	8	_	11	_	1	4	2	-	80	132	35	8	57	
Alaska	1	-	11 53	=	1 -	2	-	-	-	2	. =	=	1	
uam	_		_ 18	= =	<del>-</del>		-		2	- 25	=	= -	- 1	
uerto Rico	_	_	-	_ =	_		-	-	-	8		_		
		_	_		_			_	_	_	_	_	_	

NN: Not Notifiable NA: Not Available
\*Delayed Reports: Asep. Meng.: I owa add 4, Mo. delete 1; Chickenpox: Maine add 19, Mo. delete 1, D.C. delete 170, I daho add 100, Calif. add 165; Post Enceph. Mumps: Kansas add 1; Post Enceph. Other: Kansas delete 1, I daho add 1; Hep. B: Mo. delete 1; Hep. A: Mo. delete 1, D.C. delete 24, Ariz. add 1; Hep. Unsp.: Indiana delete 10, Mo. delete 1, Ariz. delete 1

# Table III-Continued Cases of Specified Notifiable Diseases: United States Weeks Ending June 12, 1976 and June 7, 1975 — 23rd Week

	ME	ASLES (Rube	ola)	MENINGO	COCCAL IN	FECTIONS	М	UMPS	PERTUSSIS	AUB	ELLA	TETAN
REPORTING AREA		CUML	ILATIVE		CUMUL	ATIVE	4000	CUM.	4070	4070	CUM.	CUM
OF THE PARTY	1976	1976	1975	1976	1976	1975	1976	1976	1976	1976	1978	1976
UNITED STATES	1,504	28,225	16,840	24	860	753	1,033	28, 296	10	364	9,062	18
IEW ENGLAND	11	225	211	- 1	37	42	38	1,042	1	13	243	-
Maine	_	3	10 19		-	5 2	2	88	_	_	3 11	-
New Hampshire		7	39		2	_		24 5			11	
Vermont	1	24	69		11	13		139	1	6	121	
Rhude Island		14	1	_	4	3	19	384	_ :	_	- 5	-
Connecticut	10	177	73		17	19	17	402	-	7	102	
MIDDLE ATLANTIC	343	5,571	1,081	4	115	79	190	2,321	3	95	1,923	-
Upstate New York	149	2,022	316	- 3	43	25	3	307	1	27	391	-
New York City	38	348	93	-	30	19	128	1,150	2	10	117	
New Jersey	156	544 2,657	393 279	- 1	16 26	12 23	35 24	442 422		49	1,247	-
AST NORTH CENTRAL	554	11,964	4,901	2	134	110	376	11,915	-	169	3,391	-
Ohia	33	422	90	2	77	21 5	73 51	1,686		112	244	-
Indiana	158 36	2,551	327 1,162	100	10	18	51 52	1,208	34 - 10	112	532 1.079	
Michigan	204	4,784	2,498		35	52	125	4,475		40	1,186	
Wisconsin	123	2,986	824	-	8	14	75	2,933		3	350	_
EST NORTH CENTRAL	138	967	4,629		56	37	106	3, 151		18	331	2
Minnesota	43	321	180	_	11	8	-	538	-	-	25	
lowa	_	16	409	_	8	5	7	1,124		2	39	_
Missouri *	-	12	207		17	19	31	274		_	29	1
North Dakota	-	1	1,014	_	3		5	118	-	-	1	1
South Dakota	-	2	351	-	- 1	_ 1	-	4		2	16	- L
Nebraska	95	40 575	362 2,106	-	2 14	1 3	25 38	89 1,004		14	3 218	
Kanses												
OUTH ATLANTIC	47	1,683	198 23	4	161 2	151 5	81	2,138 29		9	1,155	7
Maryland	22	665	17	= ==	15	16	15	554			i	2
District of Columbia		4		-	2	4		91	ec     -	-	45	
Virginia *	20	430	20		20	15	2	175		3	212	1
West Virginia	5	156	115	-	4	- 5	21	655	-	4	255	-
North Carolina	_	- V-		2	31	30	27	349		2	15	
South Carolina	_	3	-	2	30	24	1	37		_	568 1	
Georgia		303	2 21		13 44	44	12	248	_	-	52	4
ACT COUTH CENTER!	34	681	21 6	6	71	108	75	2,333	-	15	277	2
AST SOUTH CENTRAL Kentucky	36 33	657	77	-	14	48	2	888	-	1	135	í
Tennessee	3	9	129	3	31	38	39	1,193	-	13	138	î
Alabama	-	-	- 3	3	19	14	32	218	- I	1	1	100
Mississippi	-	15	7	-	7	8	2	34	- "	-	3	-
EST SOUTH CENTRAL	9	594	212	1	130	119	106	1,974	4	7	469	5
Arkansas	-		-	-	5	- 6	1	64	1	-	188	-
Louisiana	- 5	161	-	7762	19 18	24	1 7	19 598	1	1	83 52	2
Oklahoma	5	272 161	90 122	1	88	81	97	1,293	100	6	146	3
OUNTAIN	209	4,787	1.077	2	30	30	7	995	1	11	434	1
Montana	12	189	2 6		3	4	_	19		6	220	- :
Idaho*	63	1,968	4	-1	3	- 4	3 111	421 1		11.6	18 2	
Wyoming		261	973	_	10	9	3	191		_	18	-
New Mexico	_	14	7.7	-	2	4		124	-	-	31	-
Arizona	_	222	42	-	7	1	-	-	-	-	-	1
Utah	133	2,068	9		4	7	4	126	1	5	128	
Nevada	1	62	16	1	1	1	- 1	113	-	-	17	-
ACIFIC	157	1,753	4,315	5	126	77	54	2,427	1 1	27	839	1
Washington	67	192	147	117	20	13	4	822		1	132 110	
Oregon	11 79	118	186 3,933	3	10 85	59	11 39	299 1,272	1	21	585	1
Alaska	19	4,441	2,723	2	9	-		17	26	-	203	_
Hawaii	-	2	49	10-	2	1	-	17	-	1	12	.,-
è		Oasla H							- 1			
luam	4.0	140	15	- :	1 2	2 1	21	7 520	1	\ <u>-</u>	3 5	14
MOREU MINU	40	169	456		4	1	- 41	220		2	7	i

\*Delayed Reports:

Measles: Iowa add 9, Va. delete 1, Idaho add 28; Mening. Inf.: Mo. add 1; Mumps: Idaho add 4; Rubella: Iowa add 39

#### MORBIDITY AND MORTALITY WEEKLY REPORT

# **Table III-Continued**

Cases of Specified Notifiable Diseases: United States Weeks Ending June 12, 1976 and June 7, 1975 - 23rd Week

REPORTINO AREA		TUBE	RCULOSIS	TULA-		HOID		BORNE	4-11		DISEASES (Civil	1			RAB
UNITED STATES 656 141,536 52 9 134 32 179 19,470 424,045 413,554 473 10,746 111,315 1271 1271 1271 1271 1271 1271 1271 12	REPORTING AREA			REMIA	76	VER				GONORRHEA		S	YPHILIS (Pr	i. & Sec.)	ANIM
UNITED STATES 656 14,536 52 9 134 32 179 19,470 424,045 413,154 473 10,946 11,315  EWE ENGLAND 26 523 17 - 2 6133 11,608 11,008 8 324 397 10,946 11,315  EWE ENGLAND 26 523 2 - 5 53 961 11,008 8 324 397 10,946 11,315  EWE ENGLAND 27 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	NEFORTING AREA		СНМ	CUM		CUM		CUM		CUMUL	ATIVE	1	CUMI	JLATIVE	CUI
New Jerus   13   1.04   1.05   1.06	ALC: NO.	1976			1976		1976		1976	1976	1975	1976	1975	1975	197
Mains	UNITED STATES	656	14,536	52	9	134	32	179	19,470	424,045	413,554	473	10,946	11,315	1,144
New Hampshire				-				2				8			19
Vermont				-								_			13
Material Material   15   305   - 13   - 2   282   5,529   5,224   5   241   263   186   186   186   187		-		_	_		17	7 -							
Commention		15		-	_	13	-	2				5			5
UDDIE ATLANTIC 100 2,706 - 4 24 - 5 2,584 47,184 48,558 57 1,838 2,072  Ustatis New York 44 437 - 1 3 - 1 587 7,206 8,426 3 113 205  New York (17 23 1,080 - 3 15 - 1 887 7,206 8,426 3 113 205  New York (17 23 1,080 - 3 15 - 1 887 7,206 8,426 3 113 205  New York (17 23 1,080 - 3 15 - 1 887 7,206 8,426 3 113 205  New January 13 51 212 - 4 - 3 612 7,421 6,423 8 1,154 1,186  New January 13 51 212 - 4 - 3 612 7,421 6,423 8 1,154 1,186  New January 13 51 212 - 4 - 3 612 7,421 6,423 8 1,154 1,186  New January 13 51 212 - 4 - 3 612 7,421 6,423 8 1,154 1,186  New January 13 6,421 1,186 1,18				-			-	-						5	1
	Connecticut	2	103	-	-	2		-	181	3,748	3,661	2	57	106	
New York City. 23 1,080 - 3 13 - 1 882 21,060 21,144 39 1,154 1,186 21 1,186 21 1,186 21 1,186 21 1,186 21 1,186 21 1,186 21 20 1,186 21 1,186 21 2	DDLE ATLANTIC			-			-								10
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DUTH ATLANTIC   160   3,212   3   1   16   20   94   4,323   101,818   102,475   154   3,228   3,544		5		ī				-				2			3
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Kentucky*         7         277         1         1         4         1         6         148         4,772         4,321         -         65         77           Tennessee         22         364         10         -         3         3         23         692         15,029         13,629         2         182         178           Alabams         1         7         359         -         -         -         1         464         10,863         9,322         4         86         121           Mississippi         7         230         -         -         -         1         228         7,464         6,888         4         109         115           EST SOUTH CENTRAL         66         1,661         18         -         3         5         37         3,021         56,802         51,903         69         1,279         960           Arkansas*         9         226         8         -         -         1         8,282         9,866         20         224         22           Louisiane*         8         255         1         -         -         -         8,282         9,866         20	Florida	41	692	-	-	100	•	Di	1,003	24,313	28,934	54	1,172	1,494	2
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Louisiana*       8       255       1       -       -       -       587       8,282       9,866       20       284       229         Oklahoma       11       156       6       -       -       4       27       206       5,162       4,781       2       50       42         Texas       38       1,024       3       -       3       -       2       1,698       37,855       31,882       43       902       662         OUNTAIN       22       395       1       -       7       -       1       713       16,070       16,011       21       310       292         Montana       -       22       1       -       2       -       -       37       839       917       -       3       4         Idsho*       -       -       2       1       -       2       -       -       37       839       917       -       3       4         Idsho*       -       -       1       -       1       32       819       803       -       21       9         Vyoming       -       8       -       -       1       -	EST SOUTH CENTRAL				-	3						69	1,279	960	29
Oklahoma         11         156         6         -         -         4         27         206         5,162         4,781         2         50         42           Texas         38         1,024         3         -         3         -         2         1,698         37,855         31,882         43         902         662           OUNTAIN         22         395         1         -         7         -         1         713         16,070         16,011         21         310         292           Montana         -         22         1         -         2         -         37         839         917         -         3         4           Idaho*         -         9         -         1         1         32         819         803         -         21         9           Wyoming         -         8         -         -         -         -         -         1         9           Wyoming         -         8         64         -         1         -         -         153           New Mexico*         8         64         -         1         -         -         <		-		_	-	-	1								7
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COUNTAIN         22         395         1         -         7         -         1         713         16,070         16,011         21         310         292           Montana         -         22         1         -         2         -         -         37         839         917         -         3         44           Idsho*         -         9         -         1         -         1         32         819         803         -         21         9           Wyoming         -         8         -         -         -         -         1         354         403         -         6         4           Colorado         1         81         -         1         -         214         4,134         4,089         -         71         53           New Mexico*         8         64         -         1         -         157         3,139         2,799         8         86         83           Arizona         8         178         -         2         -         211         4,702         4,305         8         85         102           Utah         5         19						3						_			14
Montana         -         22         1         -         2         -         -         37         839         917         -         3         4         Idaho*         -         9         -         -         1         -         1         32         819         803         -         21         9         9         Wyoming         -         -         -         1         9         803         -         21         9         9         Wyoming         -         -         -         1         9         -         1         9         9         -         1         9         -         1         9         9         -         1         9         -         1         9         9         -         1         9         9         -         1         1         9         9         1	OUNTAIN	22	305	81		7		1	713	16.070		21	310	202	
Idaho*         -         9         -         1         -         1         32         819         803         -         21         9           Wyoming         -         8         -         -         -         -         10         354         403         -         6         4           Colorado         1         81         -         1         -         -         214         4,134         4,089         -         71         53           New Maxico*         8         64         -         1         -         -         157         3,139         2,7799         8         86         83           Arizona         8         178         -         2         -         211         4,702         4,305         8         85         102           Utah         5         19         -         -         -         -         12         833         991         1         16         9           Nevada         -         14         -         -         -         -         40         1,250         1,704         4         22         28           ACIFIC         97         2,320 <td< td=""><td></td><td></td><td></td><td>_</td><td>_</td><td></td><td>-</td><td>6</td><td></td><td></td><td></td><td>-</td><td></td><td></td><td>4</td></td<>				_	_		-	6				-			4
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Utah     5     19     -     -     -     -     12     833     991     1     16     9       Nevada     -     14     -     -     -     -     40     1,250     1,704     4     22     28       ACIFIC     97     2,320     6     3     44     -     -     2,774     62,639     61,050     115     2,340     2,369       Washington     5     220     2     -     2     -     -     219     5,326     5,564     -     62     85       Oregon     7     79     1     -     -     -     -     82     4,567     4,541     1     56     54       California     76     1,726     3     3     41     -     -     2,292     49,843     48,480     112     2,162     2,204       Alaska     -     -     -     -     -     161     1,750     1,500     1     13     1		_		13			-								1
Nevada       -       14       -       -       -       40       1,250       1,704       4       22       28         ACIFIC       97       2,320       6       3       44       -       -       2,774       62,639       61,050       115       2,340       2,369         Washington       5       220       2       -       2       -       219       5,326       5,564       -       62       85         Oregon       7       79       1       -       -       -       82       4,567       4,541       1       56       54         California       76       1,726       3       3       41       -       -       2,292       49,843       48,480       112       2,162       2,204         Alaska       -       25       -       -       -       161       1,750       1,500       1       13       1		_		-	-		-	-							•
Washington     5     220     2     -     2     -     -     219     5,326     5,564     -     62     85       Oregon     7     79     1     -     -     -     82     4,567     4,541     1     56     54       California     76     1,726     3     3     41     -     -     2,292     49,843     48,480     112     2,162     2,204       Alaska     -     25     -     -     -     161     1,750     1,500     1     13     1		-	14	10	-	-	-	-	40					28	
Oregon     7     79     1     -     -     -     82     4,567     4,541     1     56     54       California     76     1,726     3     3     41     -     -     2,292     49,843     48,480     112     2,162     2,204       Alaska     -     -     -     -     161     1,750     1,500     1     13     1	ACIFIC						-	ğ -				115	2,340	2,369	18
California 76 1,726 3 3 41 2,292 49,843 48,480 112 2,162 2,204 Alaska 25 161 1,750 1,500 1 13 1							-					-			
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<sup>\*</sup>Delayed Reports:
TB: Ohio add 2, Mich. delete 1, Mo. delete 1, Kansas delete 1, No. Carol. delete 11, Ky. delete 11, Ark. delete 1, Idaho add 5, New Mex. add 1; GC (civ): Neb. delete 1, La. delete 4, Idaho add 28, New Mex. add 139; GC (mil.): Alaska add 1; Syphilis (civ.): Mo. delete 1, Delaware delete 6, La. delete 11; Syphilis (mil.): Va. add 1

#### Table IV Deaths in 121 United States Cities\* Week Ending June 12, 1976 - 23rd Week

		ΑΑ	LL CAUS	ES		Pneu- monia		ALL CAUSES					
REPORTING AREA	ALL AGES	65 Years and Over	45-64 Years	25-44 Years	Under 1 Year	and Influenza ALL AGES	REPORTING AREA	ALL AGES	65 Years and Over	45-64 Years	25-44 Years	Under 1 Year	Influe AL AGI
IEW ENGLAND	5 86	356	148	46	20	32	SOUTH ATLANTIC	1,290	693	403	98	52	4
Boston, Mass	165	90	46	15	7	6	Atlanta, Ga	124	69	32	9	7	
Bridgeport, Conn	41	25	11	5		2	Baltimore, Md.	282	148	95	18	9	
Cambridge, Mass	22	11	9	1	1	2	Charlotte, N. C.	55	27	16	8	4 5	
Fall River, Mass.	16	14 28	1	1 2	2	1	Jacksonville, Fla.	106 108	63 61	31 34	7 8	2	
Hartford, Conn	47 22	14	14	2	-	i	Miami, Fla Norfolk, Va	£8	30	25	4	4	
Lowell, Mass	14	7	7		_		Richmond, Va.	95	47	33	7	5	
Lynn, Mass	29	25	4	_	_	2	Savannah, Ga	48	20	19	ė		
New Haven, Conn	46	30	10	1	1	_	St. Petersburg, Fla	67	55	12	_	_	
Providence, R.I.	54	28	12	9	3	9	Tampa, Fla.	69	48	12	5	2	
Somerville, Mass	9	4	4	1	-	-	Washington, D. C.	2 27	103	80	21	14	
Springfield, Mass	35	19	9	3	2	2	Wilmington, Del	41	22	14	3	-	
Waterbury, Conn	22	14	5	3	-	1							
Worcester, Mass	64	47	10	3	4	5							
							EAST SOUTH CENTRAL	6 56	382	178	37	22	2
							Birmingham, Ala.	1 01	56	25	5	6	
WIDDLE ATLANTIC	2,570		646	157	81	121	Chattanooga, Tenn	39	24	9	1	3	
Albany, N. Y.	45	24	16	3	2	1	Knoxville, Tenn	47	32	10	2	1	
Allentown, Pa	19	12	6	-	1		Louisville, Ky	99	56	29	4	3	
Buffalo, N. Y.	98	59	21	8	6	8	Memphis, Tenn	170	102	42	12	4	
Camden, N. J.	34	22	8	+ 1	3	1	Mobile, Ala	54	35 25	9	5 2	3	
Elizabeth, N. J	21 37	13 27	8 8	_	2	2	Montgomery, Ala	42 104	52 52	14 40	. 6	2	
Erie, Pa.	47	27	14	3	2	1	Nashville, Tenn.	104	32	40		2	
Jersey City, N. J	57	32	16	3	2	- î							
Newark, N. J	1.312	818	319	93	40	54	WEST SOUTH CENTRAL	1,147	607	344	77	62	4
New York City, N. Y <sup>†</sup> . Paterson, N. J.	32	18	12	1	1	2	Austin, Tex	38	19	7 7	2	5	•
Philadelphia, Pa	298	180	78	19	10	17	Baton Rouge, La	26	19	6	ī	_	
Pittsburgh, Pa	168	87	55	15	9	9	Corpus Christi, Tex	32	20	5	=	3	
Reading, Pa.	43	31	10		í	2	Dallas, Tex.	173	92	54	13	4	
Rochester, N. Y.	146	99	32	5	-	6	El Paso, Tex.	48	20	14	4	6	
Schenectady, N. Y	24	17	6	1	-	1	Fort Worth, Tex	69	37	24	5	2	
Scranton, Pa.	26	19	6	1		4	Houston, Tex.	3 37	162	108	30	23	
Syracuse, N. Y	70	51	14	4	_	2	Little Rock, Ark	52	27	18	4	1	
Trenton, N. J.	47	27	11	1	2	6	New Orleans, La	125	65	39	5	6	
Utica, N. Y	18	17	1	-	-	1	San Antonio, Tex	127	81	32	5	4	
Yonkers, N. Y.	28	23	5	-	-	3	Shreveport, La Tulsa, Okla	58 62	30 35	17 20	7 1	3 5	
	2 212	1 220	-	1.46	1.00	5.0	,,						
AST NORTH CENTRAL	2,313		641	145	1 02	59		465	284	109	20	34	2
Akron, Ohio	64 33	36 24	12	2 2	10 1	3	MOUNTAIN	51	36	11	1	34	
Canton, Ohio	549	315	151	40	24	12	Albuquerque, N. Mex	31	17	- 19	2	2	
Chicago, III.	181	102	58	7	9	- 12	Colorado Springs, Colo.	107	63	25	7	11	
Cincinnati, Ohio	181	101	53	16	5	5	Denver, Colo	31	16	-6	3	î	
Cleveland, Ohio	134	76	34	11	5	3	Ogden Utah	22	16	4	ī	_	
Calumbus, Ohio	114	65	33	- 6	5	ī	Phoenix, Ariz.	98	53	27	3	11	
Detroit, Mich.	303	163	92	25	10	9	Pueblo, Colo	24	19	4	_	1	
Evansville, Ind	39	25	10	2	ī	á	Salt Lake City, Utah	53	29	13	1	8	
Fort Wayne, Ind.	38	28	7	2	-	1	Tucson, Ariz	48	35	10	2	-	
Gary, Ind.	28	6	15	4	-	1							
	55	37	14		2	4							
Grand Rapids, Mich	163	94	41	11	8	-	PACIFIC		1,064	399	94	50	3
Grand Rapids, Mich Indianapolis, Ind		19	2	1	5	2	Berkeley, Calif	14	11	1	1	-	
Indianapolis, Ind	27			5	5	-	Fresno, Calif	60	39	10	5	2	
	124	72	39					23	15	7	1	_	
Indianapolis, Ind Madison, Wis	124 39	72 20	11	3	4	2	Glendale, Calif						
Indianapolis, Ind	124 39 43	72 20 28	11 10	3	4 2	3	Honolulu, Hawaii	40	22	11	6	-	
Indianapolis, Ind	124 39 43 48	72 20 28 31	11 10 9	3 1 3	2	3 4		40 87	22 58	22	3	3	
Indianapolis, Ind	124 39 43 48 98	72 20 28 31 52	11 10 9 33	3 1 3 3	2 - 5	3 4 -	Honolulu, Hawaii Long Beach, Calif. Los Angeles, Calif.	40 87 5 50	22 58 365	22 126	3 34	3 12	2
Indianapolis, Ind	124 39 43 48	72 20 28 31	11 10 9	3 1 3	2	3 4	Honolulu, Hawaii Long Beach, Calif. Los Angeles, Calif. Oakland, Calif.	40 87 550 83 26	22 58 365 49 17	22 126 16 4	3 34 9 1	3 12 4 3	2
Indianapolis, Ind	1 24 39 43 48 98 52	72 20 28 31 52 36	11 10 9 33 13	3 1 3 3 1	2 - 5 1	3 4 - 1	Honolulu, Hawaii Long Beach, Calif. Los Angeles, Calif.	40 87 550 83 26 134	22 58 365 49 17 91	22 126 16 4 34	3 34 9 1 4	3 12 4 3 1	2
Indianapolis, Ind. Madison, Wis. Milwaukee, Wis. Peoria, III. Rockford, III. South Bend, Ind. Toledo, Ohio Youngstown, Ohio	124 39 43 48 98 52	72 20 28 31 52 36	11 10 9 33 13	3 1 3 3	2 - 5	3 4 -	Honolulu, Hawaii Long Beach, Calif. Los Angeles, Calif. Oakland, Calif. Pasadena, Calif.	40 87 550 83 26 134 48	22 58 365 49 17 91 28	22 126 16 4 34 15	3 34 9 1 4	3 12 4 3 1	2
Indianapolis, Ind. Madison, Wis. Milwaukee, Wis. Peoria, III. Rockford, III. South Bend, Ind. Toledo, Ohio Youngstown, Ohio	124 39 43 48 98 52 828 61	72 20 28 31 52 36	11 10 9 33 13	3 1 3 3 1	2 - 5 1	3 4 - 1	Honolulu, Hawaii Long Beach, Calif. Los Angeles, Calif. Oakland, Calif. Pasadena, Calif. Portland, Oreg.	40 87 550 83 26 134 48 125	22 58 365 49 17 91 28 76	22 126 16 4 34 15 31	3 34 9 1 4 1	3 12 4 3 1 1	2
Indianapolis, Ind. Madison, Wis. Madison, Wis. Miliwaukee, Wis. Peoria, III. Rockford, III. South Bend, Ind. Youngstown, Ohio Voungstown, Ohio	124 39 43 48 98 52 828 61 25	72 20 28 31 52 36 494 36 17	11 10 9 33 13 206 23	3 1 3 3 1	2 - 5 1 48 - 1	3 4 - 1 20 - 2	Honolulu, Hawaii Long Beach, Calif. Los Angeles, Calif. Oakland, Calif. Pasadena, Calif. Portland, Oreg. Sacramento, Calif.	40 87 550 83 26 134 48 125 169	22 58 365 49 17 91 28 76	22 126 16 4 34 15 31 48	3 34 9 1 4 1 4	3 12 4 3 1 1 11 3	2
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Indianapolis, Ind. Madison, Wis. Milwaukee, Wis. Peoria, III. Rockford, III. South Bend, Ind. Toledo, Ohio Youngstown, Ohio  JEST NORTH CENTRAL Des Moines, Iowa Duluth, Minn.	124 39 43 48 98 52 828 61 25 25 133	72 20 28 31 52 36 494 36 17 13 79	11 10 9 33 13 206 23 4 7 34	3 1 3 3 1 47 - 3 2 7	2 - 5 1 48 - 1	20 - 2 3 3	Honolulu, Hawaii Long Beach, Calif. Los Angeles, Calif. Oakland, Calif. Pasadena, Calif. Portland, Oreg. Sacramento, Calif. San Diego, Calif. San Francisco, Calif. San Jose, Calif. Seattle, Wash.	40 87 550 83 26 134 48 125 169 53 174	22 58 365 49 17 91 28 76 100 33 108	22 126 16 4 34 15 31 48 13 46	3 34 9 1 4 1 4	3 12 4 3 1 1 11 3 2	2
Indianapolis, Ind. Madison, Wis. Milwaukee, Wis. Peoria, III. Rockford, III. South Bend, Ind. Toledo, Ohio Youngstown, Ohio  WEST NORTH CENTRAL Des Moines, Iowa Duluth, Minn. Kansas City, Kans.	124 39 43 48 98 52 828 61 25 133 34	72 20 28 31 52 36 494 36 17 13 79 26	11 10 9 33 13 206 23 4 7 34 5	3 1 3 3 1 47 - 3 2 7 1	2 - 5 1 48 - 1 3 8	20 - 2 3 3 -	Honolulu, Hawaii Long Beach, Calif. Los Angeles, Calif. Oakland, Calif. Pasadena, Calif. Portland, Oreg. Sacramento, Calif. San Diego, Calif. San Francisco, Calif. Sean Jose, Calif. Seattle, Wash. Spokane, Wash.	40 87 550 83 26 134 48 125 169 53 174	22 58 365 49 17 91 28 76 100 33 108	22 126 16 4 34 15 31 48 13 46	3 34 9 1 4 1 12 3 9	3 12 4 3 1 1 11 3 2 4 3	2
Indianapolis, Ind. Madison, Wis. Mailwaukee, Wis. Peoria, III. Rockford, III. South Bend, Ind. Toledo, Ohio Youngstown, Ohio  VEST NORTH CENTRAL Des Moines, Iowa Duluth, Minn. Kansas City, Kans. Kansas City, Kan. Lincoln, Nebr. Minneapolis, Minn.	124 39 43 48 98 52 828 61 25 25 133 34	72 20 28 31 52 36 494 36 17 13 79 26 75	11 10 9 33 13 206 23 4 7 34 5 23	3 1 3 1 47 - 3 2 7 1	2 - 5 1 48 - 1 3 8 - 3	20 - 2 3 3 - 3	Honolulu, Hawaii Long Beach, Calif. Los Angeles, Calif. Oakland, Calif. Pasadena, Calif. Portland, Oreg. Sacramento, Calif. San Diego, Calif. San Francisco, Calif. San Jose, Calif. Seattle, Wash.	40 87 550 83 26 134 48 125 169 53 174	22 58 365 49 17 91 28 76 100 33 108	22 126 16 4 34 15 31 48 13 46	3 34 9 1 4 1 4 12 3	3 12 4 3 1 1 11 3 2	2
Indianapolis, Ind. Madison, Wis. Madison, Wes. Milwaukee, Wis. Peoria, III. Rockford, III. South Bend, Ind. Toledo, Ohio Youngstown, Ohio  VEST NORTH CENTRAL Des Moines, Iowa Duluth, Minn. Kansas City, Kans. Kansas City, Mo. Lincoln, Nebr. Minneapolis, Minn. Omaha, Nebr.	124 39 43 48 98 52 828 61 25 25 133 34 117 85	72 20 28 31 52 36 494 36 17 13 79 26 75	11 10 9 33 13 206 23 4 7 34 5 23 21	3 1 3 3 1 47 - 3 2 7 1 11 5	2 -5 1 48 - 1 3 8 - 3 4	3 4 - 1 20 - 2 3 3 - 3 1	Honolulu, Hawaii Long Beach, Calif. Los Angeles, Calif. Oakland, Calif. Pasadena, Calif. Portland, Oreg. Sacramento, Calif. San Diego, Calif. San Francisco, Calif. Sean Jose, Calif. Seattle, Wash. Spokane, Wash.	40 87 550 83 26 134 48 125 169 53 174	22 58 365 49 17 91 28 76 100 33 108	22 126 16 4 34 15 31 48 13 46	3 34 9 1 4 1 12 3 9	3 12 4 3 1 1 11 3 2 4 3	
Indianapolis, Ind. Madison, Wis. Madison, Wis. Milwaukee, Wis. Peoria, III. Rockford, III. South Bend, Ind. Toledo, Ohio Youngstown, Ohio  VEST NORTH CENTRAL Des Moines, Iowa Duluth, Minn. Kansas City, Kans. Kansas City, Mo. Lincoln, Nebr. Minneapolis, Minn. Omaha, Nebr. St. Louis, Mo.	124 39 43 48 98 52 828 61 25 25 133 34 117 85	72 20 28 31 52 36 494 36 17 13 79 26 75 51 97	11 10 9 33 13 206 23 4 7 34 5 23 21 47	3 1 3 3 1 47 - 3 2 7 1 1 1 5 12	2 - 5 1 48 - 1 3 8 - 3 4 14	20 - 2 3 3 - 3 1 3	Honolulu, Hawaii Long Beach, Calif. Los Angeles, Calif. Oakland, Calif. Pasadena, Calif. Portland, Oreg. Sacramento, Calif. San Diego, Calif. San Francisco, Calif. San Jose, Calif. Seattle, Wash. Spokane, Wash.	40 87 550 83 26 1 34 48 1 25 1 69 53 1 74 44 31	22 58 365 49 17 91 28 76 100 33 108 32 20	22 126 16 34 15 31 48 13 46 7	3 34 9 1 4 12 3 9	3 12 4 3 1 1 11 3 2 4 3 1	2
Indianapolis, Ind. Madison, Wis. Milwaukee, Wis. Peoria, III. Rockford, III. South Bend, Ind. Toledo, Ohio Youngstown, Ohio  VEST NORTH CENTRAL Des Moines, Iowa Duluth, Minn. Kansas City, Kans. Kansas City, Mo. Lincoln, Nebr. Minneapolis, Minn. Omaha, Nebr.	124 39 43 48 98 52 828 61 25 25 133 34 117 85	72 20 28 31 52 36 494 36 17 13 79 26 75	11 10 9 33 13 206 23 4 7 34 5 23 21	3 1 3 3 1 47 - 3 2 7 1 11 5	2 -5 1 48 - 1 3 8 - 3 4	3 4 - 1 20 - 2 3 3 - 3 1	Honolulu, Hawaii Long Beach, Calif. Los Angeles, Calif. Oakland, Calif. Pasadena, Calif. Portland, Oreg. Sacramento, Calif. San Diego, Calif. San Francisco, Calif. Sean Jose, Calif. Seattle, Wash. Spokane, Wash.	40 87 550 83 26 1 34 48 1 25 1 69 53 1 74 44 31	22 58 365 49 17 91 28 76 100 33 108	22 126 16 34 15 31 48 13 46 7	3 34 9 1 4 1 12 3 9	3 12 4 3 1 1 11 3 2 4 3	40

†Delayed Report for Week Ending 6/5/76

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The editor velcomes accounts of interesting cases, outbreaks, environmental hazards, or other public health problems of current interest to health officials. Send reports to: Center for Disease Control, Attn.: Editor, Morbidity and Mortality Weekly Report, Atlanta, Georgia 30333.

Send mailing list additions, deletions, and address changes to: Center for Disease Torol, Attn.: Distribution Services, GSO, 1-SB-36, Atlanta, Georgia 30333. When requesting changes be sure to give your former address, including zip code and mailing list code number, or send an old address label.

#### International Notes

#### Salmonella Infections — United Kingdom, 1975

Salmonella continues to be one of the most common organisms reported to the Public Health Laboratory Service. During the first 24 weeks of 1975, there were 3,053 reports. Though about 100 different serotypes were reported, 7 serotypes made up 2,141 (70%) of this total. As usual, by far the most common was Salmonella typhimurium (951 reports). S. enteritidis, S. heidelberg, S. indiana, and S. newport were each reported between 200-300 times. S. agona and S. branderup both featured in more than 100 reports.

Reports of salmonella reach a peak during warm weather in summer and are least common in winter and spring, but individual serotypes often show considerable variation from this general rule. For example, 164 of the 275 infections of *S. indiana* were received in January and 119 of the 225 reports of *S. newport* during February. Only 22 infections of *S. enteritidis* were received in January, whereas 180 of the total of 262—almost 70%—were reported during April and May.

The sources, other than man, from which these serotypes are most often identified are poultry and animal feed. A sudden, large increase in the reports of a single serotype usually indicates the occurrence of a large single outbreak from a common food source. Thus, the sudden increase in the reports of *S. indiana* early in January was due to several large outbreaks whose origin was infected turkeys from a single source of supply (1).

More troublesome from an epidemiologic point of view is a consistent increase, for weeks or months, in numbers of a single serotype. S. heidelberg, for example, is not usually 1 of the more common serotypes reported. The average number of reports during the first half of the last 5 years was only 35, but in the first 6 months of 1975 there were 243. This excess was already evident in the first few weeks of 1975 and consistently increased each month, with reports coming from many areas. The food usually implicated was chicken. In the first 6 months of 1975, there were 8 outbreaks of S. heidleberg, although none was large. Three

occurred in February, 2 in April, 2 in May, and 1 in early June. No outbreaks occurred during the corresponding period in 1974.

One outbreak was associated with a special-care nursery. One baby failed to thrive and was found to be infected with *S. heidelberg*. On investigation, 2 more babies, a nurse, and a house physician were found to be excreting the organism. The physician had resuscitated all 3 infected babies; he had just returned from Bangladesh.

Other cases were reported in twin babies in the unit, and in a mother and 2 siblings of infected infants. In another outbreak 3 out of 15 members of a school party had diarrhea on their return from Romania; all 3 were excreting S. heidelberg. Five outbreaks concerned individual households; in the remaining 1 the community was not stated. No common source of infection has yet been identified.

From notes based on reports to the Public Health Laboratory Service from public health and hospital laboratories in the United Kingdom and the Republic of Ireland, published in the British Medical Journal, August 9, 1975.

Editorial Note: In the United States the 10 most frequently reported serotypes in 1974 were *S. typhimurium* (including var. copenhagen), *S. newport*, *S. enteritidis*, *S. infantis*, *S. heidelberg*, *S. agona*, *S. saint-paul*, *S. typhi*, *S. derby*, and *S. oranienburg*. They accounted for 16,435 (68.9%) of the 23,838 isolates reported in 1974. *S. agona*, which was widely disseminated in Europe and the United States in the late 60s and early 70s (2), has shown the greatest rise, accounting for a 20% increase from 1973.

#### References

- Salmonella indiana from Christmas turkey. Br Med J 3:107, 1975
- 2. Clark GM, Kaufmann AF, Gangarosa EJ, Thompson MA: Epidemiology of an international outbreak of *Salmonella agona*. Lancet ii:490-493, 1973

## Botulism Associated with Cheese Spread — Buenos Aires, Argentina

Eleven persons in 5 Argentinean families contracted botulism in January 1974. Four of the families resided in the metropolitan area of Buenos Aires, and 1 lived in Chacabuco.

Ten of the patients received botulinum anti-toxin. There were 3 deaths. A commercial cheese spread with dehydrated onions, sold in sealed plastic containers, was the vehicle of transmission. Type A botulinal toxin and Type A Clostridium botulinum were isolated from 4 containers of the same factory lot of the suspect spread. The product was withdrawn from the market, and there were no further cases.

Reported by Dra. Ethel Amato de Lagarde, Cándido V. del Prado, National Institute of Microbiology, "Carlos G. Malbran," Buenos Aires; Dr. Raul Garbugino, Hospital Muniz, Buenos Aires. Editorial Note: Outbreaks of botulism are infrequently traced to cheese. Since the first outbreak of botulism in the United States was reported in 1899, 7 out of 736 outbreaks were from cheese, including 1 outbreak from a commercially-processed product. In these 7 outbreaks 21 persons were affected, and 9 died (1,2). The commercial outbreak occurred in California in 1951 and was caused by Liederkranz cheese; the 1 person affected died from type B botulism.

Reported by Enteric Diseases Br, Bacterial Diseases Div, Bur of Epidemiology, CDC.

#### References

- 1. Meyer KF, Eddie B: Sixty-five Years of Botulism in the United States and Canada. San Francisco, George Williams Hooper Foundation, University of California, 1965, pp 28, 34
- 2. Center for Disease Control: Botulism in the United States, 1899-1973. Handbook for Epidemiologists, Clinicians, and Laboratory Workers. Issued June 1974

#### Current Trends

#### Primary and Secondary Syphilis — United States, April 1976

In April 1976, 1,892 primary and secondary syphilis cases were reported, a decline of 440 cases (18.9%) from the 2,332 cases reported in April 1975. For the first 4 months of 1976, cases numbered 8,290; this was 4.8% fewer

than the number of cases reported in the same time period of 1975.

Reported by Venereal Disease Control Div, Bur of State Services, CDC.

# Summary of Reported Primary and Secondary Syphilis Cases by Reporting Area April 1976 and April 1975 – Provisional Data

Reporting Area by HEW Regions	Ap	April		iar Year ulative y—April	Reporting Area by HEW Regions	April		Calendar Year Comulative January—April		Reporting Area by HEW Regions	A	pril	Calendar Year Cumulative January—April	
The second second	1976	1975	1976	1975		1976	1975	1976	1975		1976	1975	1976	1975
Connecticut	11	26	51	79	Illinais (Excl. Chicago)	14	31	48	84	Arizona	27	22	90	92
Maine	1	2	9	10	Chicago	59	62	291	273	California (Excl. LA & SF)	154	151	748	574
Massachusetts	44	57	170	210	Indiana (Excl. Indianapolis) .	9	8	30	41	Los Angeles®	87	211	587	651
New Hampshire	0	0	3	10	Indianapolis*	2	6	16	9	San Francisco*	64	86	275	347
Rhade Island	. 1	a	10	3	Michigan	16	32	93	120	Hawaii	16	6	34	21
Vermant	a	1	2	4	Minnesota	9	13	38	27	Nevada	3	5	16	21
REGION I TOTAL	57	86	245	316	Ohio	48	38	184	149	REGION IX TOTAL	351	481	1.750	1,706
CONTRACT TOTAL DISTRICT	1311611				Wisconsin	15	4	44	33					711
New Jersey	42	74	185	289	REGION V TOTAL	172	194	744	736	Alaska	6	1	8	1
New York (Excl. NYC)	19	31	92	151			19.4			Idaho	5	2	13	6
New York City	214	282	909	990	Arkansas	4	5	29	22	Oragon	9	9 9	50	38
REGION II TOTAL	275	387	1.186	1,430	Louisiana	23	48	189	181	Washington	8	26	45	77
d or a change of the latter of				.,	New Mexico	10	17	63	66	REGION X TOTAL	28	38	116	122
Delaware	5	13	20	34	Oktahoma	4	7	39	36					
District of Columbia	57	49	214	203	Texas	136	130	637	516					
Maryland (Excl. Baltimore)	16	19	62	76	REGION VI TOTAL	177	207	957	821	UNITED STATES TOTAL	1,892	2,332	8,290	8,712
Baltimora	45	29	152	136							,,	2,000	-,	
Pennsylvania (Excl. Phila.)	27	59	85	138	lowa	3	1	18	11	-				
Philadelphia	39	39	125	160	Kansas	8	11	31	39	Puerto Rico	55	66	187	272
Virginia	62	48	218	211	Missouri	9	30	60	109	Virgin Islands	1	4	13	11
West Virginia	3	2	14	10	Nebraska	5	1	13	4	United States, Including	7.1			
REGION III TOTAL	254	258	890	968	REGION VII TOTAL	25	43	122	163	Outlying Areas	1,948	2,402	8,490	8,995
Alabama	17	22	64	97	Colorado	12	11	53	47		- 1			
Florida	230	328	881	1,114	Montana	n	0	4	3	Marie Maria				
Georgia (Excl. Atlanta)	37	64	181	209	North Dakota	0	ň	i	) 5					
Atlanta*	46	27	176	138	South Dakota	ő	n n	2	ءَ ا					
Kentucky	4	12	52	60	Utah	7	ň	a	3	Note: Cumulative totals include	ravised an	d delayed re	ports throu	igh previous
Mississippi	21	28	87	86	Wyaming	á	1	1 4	;	months.		100		
North Carelina	123	74	502	348	REGION VIII TOTAL	19	12	72	58	Source: CDC 9.98, HEW-CDC-8:	SS-VD Cor	trol Division	n, Atlanta,	Georgia
South Carolina	29	41	138	200	nedida em tutar	13	12	12	30					
Tennessee	29		127	140	THE WAR OF THE				11177	OTO BUILDING BUILDING				
REGION IV TOTAL	534	30												
MEDIUM IN IDIAL	534	626	2,208	2,392										

\*County Data

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